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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

October 5, 1999

BY HAND

Magalie Roman Salas, Secretary
Federal Communications Commission
445 Twelfth Street, S.W. - Suite TW-A325
Washington, D.C. 20554

Re: Service Rules for the 746-764 and 776-794 MHz Bands,
And Revisions to Part 27 of the Commission's Rules
WT Docket No. 99-168
Ex Parte Presentation

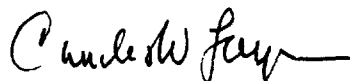
Dear Ms. Salas:

On October 4-5, 1999, Mike Farmwald and Arvin Shahani of FreeSpace Communications and Ruth Milkman and Charles Logan of Lawler, Metzger & Milkman met with Kris Monteith, Stanley Wiggins, Jane Phillips, Marty Leibman, and Gregory Vadas of the Policy Division of the Wireless Telecommunications Bureau, Robert Pepper, John Williams, and Evan Kwerel of the Office of Plans and Policy, and Bruce Franca of the Office of Engineering and Technology.

In these meetings, FreeSpace Communications set forth a proposal for licensing spectrum for commercial services in the 746-764 and 776-794 MHz bands. That proposal is described in a written *ex parte* presentation that was handed out during the meetings and that is enclosed with this filing. A copy of this written presentation was also sent to James Schlichting and Kathleen Ham of the Wireless Telecommunications Bureau.

Pursuant to section 1.1206(b)(1) of the Commission's rules, 47 C.F.R. § 1.1206(b)(1), an original and one copy of this letter and enclosure are being provided to you for inclusion in the public record of the above-referenced proceeding.

Sincerely,



Charles W. Logan

cc: James Schlichting
Kris Monteith
Jane Phillips
Gregory Vadas

Kathleen Ham
Stanley Wiggins
Marty Leibman
Bruce Franca

John Williams
Evan Kwerel
Robert Pepper

Enclosure

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FREESPACE COMMUNICATIONS

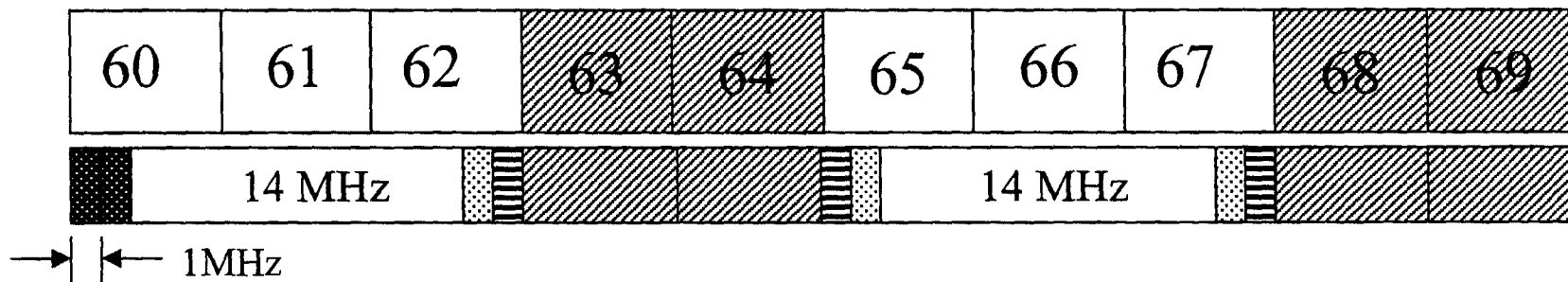
Ex Parte Presentation

October 4-5, 1999

Service Rules for 746-764/776-794 MHz Bands

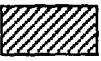
WT Docket No. 99-168

FreeSpace Communications Channels 60-69 Proposal



License eight 1MHz, paired channels for innovative, low power uses that protect public safety band:

 4mW/kHz
  20mW/kHz
  > 20mW/kHz

 Public Safety

License remaining 28MHz for higher powered mobile and fixed wireless services:

 Two 14MHz bands for mobile & fixed wireless services

Public Interest Benefits

- Creates *guard bands* to provide maximum interference protection to public safety operations in 764-776/794-806 MHz band.
- Supports *new, innovative* uses of spectrum such as FreeSpace Communications' broadband wireless voice and data service.
- Extends wireless and internet services to *underserved communities*.

Protecting Public Safety

- *The Challenge:* FCC “must limit types and nature of non-broadcast commercial mobile radio operations on adjacent channels and/or provide a sufficient guard band within the commercial spectrum to prevent interference with public safety systems.” *APCO Comments at 3.*
- *The FreeSpace Solution:* Establish transmit power limits in guard bands adjacent to public safety spectrum that will provide maximum interference protection to current and future public safety operations.

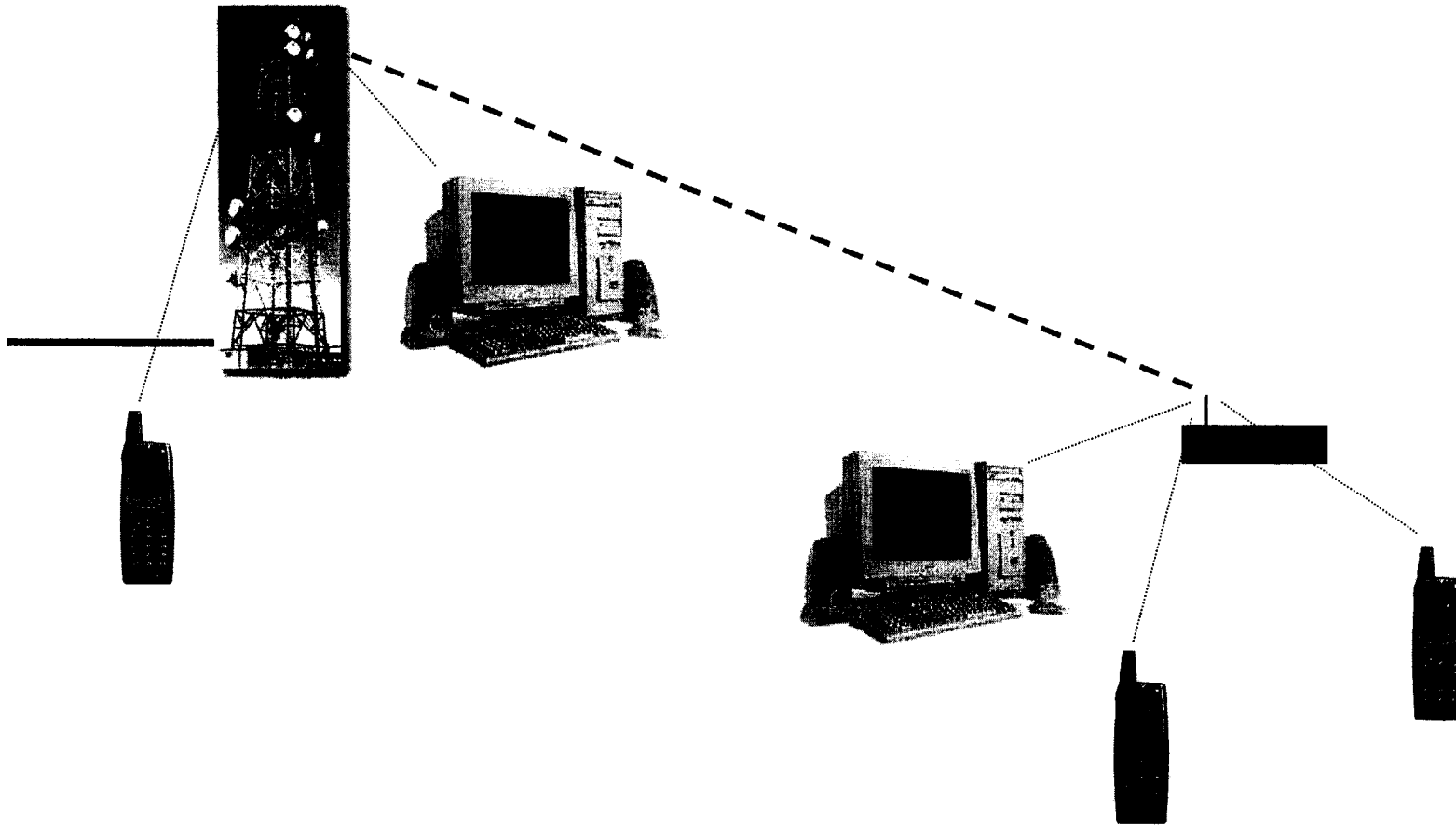
Use Power Spectral Density Limits to Control Interference

- Prevents concentration of transmit power in narrow bandwidth channels adjacent to public safety
- Allows wireless systems to be engineered for services rather than around channel bandwidths
 - Distance, transmit power, and channel bandwidth are interrelated
 - PSD limits allow transmit power to be coupled to channel bandwidth, causing distance to be independent of channel bandwidth

The FreeSpace System

- Offers wireless voice and data, including broadband wireless internet connection.
- Uses innovative technology that promotes efficient use of the spectrum.
- Technology involves significantly lower infrastructure, equipment and maintenance costs, which means less expensive wireless services for consumers.

Network Architecture



Bringing the Telecommunications Revolution to Underserved Communities

- *The Challenge:* Bring affordable telecommunications services to underserved areas, including tribal lands and rural areas.
- *Existing Obstacles:* High infrastructure costs, and high monthly fees for consumers.
- *The FreeSpace Solution:* Technology that significantly reduces infrastructure and equipment costs, making it possible to offer very affordable wireless voice and data services to *all* Americans.

Nationwide Licensing and Bidding Credits

- License the eight 1 MHz, paired channels (with a minimum of 14 MHz separation) on a *nationwide basis*.
 - Provides for a ubiquitous, wireless network.
 - Promotes economies of scale.
 - Received strong support in comments.
- Adopt the small business definitions proposed in the *NPRM* and use bidding credits to promote small business entry and entrepreneurial innovation.

Coexisting with Broadcast Facilities

- FreeSpace system makes it possible to create a nationwide wireless network that protects existing broadcast stations in Channels 60-69.
- Protect existing broadcast stations from interference until the end of the DTV transition, but do *not* authorize new broadcast facilities in Channels 60-69.
 - Received strong support in comments.